## Amendments of the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

## Listing of Claims:

- 1. (previously presented) Light-storage self-luminescent glass, comprising from 0.01% to 40% by weight of a light-storage self-luminescent material activated by multiple ions and from 99.99% to 60% by weight of a matrix glass; wherein the light-storage self-luminescent material has a particle size from 0.8 mm to 20 mm, and the matrix glass is selected from the group consisting of sodium-calcium-silicon glass, borate glass, phosphate glass, halide glass, sulfide glass and aluminate glass.
- 2. (original) Light-storage self-luminescent glass according to claim 1, wherein the chemical formula of the light-storage self-luminescent material activated by multiple ions is:

αMO · βM'O · γSiO<sub>2</sub> · δR:Eu<sub>x</sub>Ln<sub>v</sub>

wherein M is one or more selected from the group consisting of Sr, Ca, Ba and Zn;

M' is one or more selected from the group consisting of Mg, Cd and Be;

R is B2O3, P2O5 or mixture thereof;

 $\label{eq:Ln} \mbox{Ln is one or more selected from the group consisting of Nd, Dy, Ho, Tm, La, Pr, Tb, Ce, Er, Mn, Bi, Sn and Sb; and$ 

 $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ , x and y are molar coefficients meeting following requirement:  $0.6 \le \alpha \le 6$ ;  $0 \le \beta \le 5$ ;  $1 \le \gamma \le 9$ ;  $0 \le \delta \le 0.7$ ;  $0.00001 \le x \le 0.2$ ;  $0 \le y \le 0.3$ .

3. (previously presented) Light-storage selfluminescent glass according to claim 2, wherein the chemical formula of the light-storage self-luminescent material activated by multiple ions is:

(Sr<sub>1-z</sub>Ca<sub>z</sub>)<sub>2</sub>MgSi<sub>2</sub>O<sub>7</sub>:Eu<sub>x</sub>Ln<sub>v</sub>

wherein Ln is one or more selected from the group consisting of La, Ce, Dy, Tm, Ho, Nd, Er, Sb and Bi; z is a coefficient:  $0 \le z \le 1$ ; and

x and y are molar coefficients:  $0.0001 \le x \le 0.2$ ;  $0.0001 \le y \le 3.0$ .

4. (original) Light-storage self-luminescent glass according to claim 1, wherein the chemical formula of the light-storage self-luminescent material activated by multiple ions is:

(Ca<sub>1-z</sub>Sr<sub>z</sub>)S:Eu<sub>x</sub>Ln<sub>y</sub>

wherein Ln is one or more selected from the group consisting of Er, Dy, La, Tm and Y;

z is a coefficient:  $0 \le z \le 1$ ; and

x and y are molar coefficients meeting following requirement: 0.00001  $\leq$  x  $\leq$  0.2; 0.00001  $\leq$  y  $\leq$  0.15.

5. (original) Light-storage self-luminescent glass according to claim 1, wherein the chemical formula of the light-storage self-luminescent material activated by multiple ions is:

R2O2S: EuvLnv

In is one or more selected from the group consisting of Er, Cr, Bi, Dy, Tm, Ti, Mq, Sr, Ca, Ba and

Mn; and

x and y are molar coefficients meeting following requirement: 0.00001  $\leq$  x  $\leq$  0.2; 0.00001  $\leq$  y  $\leq$  0.6.

6. (original) Light-storage self-luminescent glass according to claim 1, wherein the chemical formula of the light-storage self-luminescent material activated by multiple ions is:

 $\alpha$ MO •  $\beta$ A1<sub>2</sub>O<sub>3</sub> •  $\gamma$ B<sub>2</sub>O<sub>3</sub>:Eu<sub>x</sub>Ln<sub>v</sub>

wherein M is one or more selected from the group consisting of Mq, Ca, Sr and Zn;

Ln is one or more selected from the group consisting of Nd, Dy, Ho, Tm, La, Ce, Er, Pr and Bi; and

 $\alpha,~\beta,~\gamma,~x~and~y~are~molar~coefficients$  meeting following requirement: 0.5  $\leq \alpha \leq$  6; 0.5  $\leq \beta \leq$  9; 0  $\leq \gamma \leq$  0.3; 0.00001  $\leq x \leq$  0.15; 0.00001  $\leq y \leq$  0.2.

7. (original) Light-storage self-luminescent glass according to claim 6, the chemical formula of the light-storage self-luminescent material is:

MAl<sub>2</sub>O<sub>4</sub>:Eu<sub>x</sub>Ln<sub>y</sub>

wherein Ln is one or more selected from the group consisting of La, Ce, Dy, Ho, Nd and Er;

\$M\$ is one or more selected from the group consisting of Sr, Ca, Mg and Zn; and

x and y are molar coefficients: 0.0001  $\leq$  x  $\leq$  0.15; 0.0001  $\leq$  y  $\leq$  0.2.

8. (original) Light-storage self-luminescent glass according to claim 6, wherein the chemical formula of the light-storage self-luminescent material activated by multiple ions is:

 $M_4A1_{14}O_{25}:Eu_xLn_v$ 

wherein Ln is one or more selected from the group consisting of Pr, Ce, Dy, Ho, Nd and Er;

 $$\rm M$  is one or more selected from the group consisting of Sr, Ca, Mg and Zn; and

x and y are molar coefficients: 0.0001  $\leq$  x  $\leq$  0.15; 0.0001  $\leq$  y  $\leq$  0.2.

## 9-11. (canceled)

12. (previously presented) A process for producing the light-storage self-luminescent glass according to claim 1, comprising:

heating and melting the matrix glass;

doping the light-storage self-luminescent
material into the melted matrix glass to produce a mixture;
and

forming the mixture at 900-1300°C.

13. (previously presented) A process for producing the light-storage self-luminescent glass according to claim 1, comprising:

re-heating and melting a glass which has been formed and cooled; and

doping the glass with the light-storage self-luminescent material before secondary forming.

## 14-15. (canceled)

16. (currently amended) Light-storage selfluminescent glass according claim 1, wherein said lightstorage self luminescent material activated by multiple ions is selected from the group consisting essentially of silicate, aluminate, sulfide, and any combination thereof.

- 17. (previously presented) Light-storage self-luminescent glass, comprising from 0.01% to 40% by weight of a light-storage self-luminescent material activated by multiple ions and from 99.99% to 60% by weight of a matrix glass; wherein the light-storage self-luminescent material has a particle size from 0.8 mm to 2 mm, and the matrix glass is selected from the group consisting of sodium-calcium-silicon glass, borate glass, phosphate glass, halide glass, sulfide glass and aluminate glass.
- 18. (previously presented) A process for producing the light-storage self-luminescent glass according to claim 17, comprising:

heating and melting the matrix glass;

doping the light-storage self-luminescent
material into the melted matrix glass to produce a mixture;
and

forming the mixture at 900-1300°C.

19. (previously presented) A process for producing the light-storage self-luminescent glass according to claim 17, comprising:

re-heating and melting a glass which has been formed and cooled; and

doping the glass with the light-storage self-luminescent material before secondary forming.